Olin Chemical Superfund Site
Wilmington, MA
Proposed Drinking Water Analytes [2]
For Residences Except Those Identified as Wilmington Map/Lot Numbers M-24/L-54 and M-24/L-94 [6]

Analyte[1]	CAS #	Olin Method in the QAPP[1]	EPA Lab Proposed Methods	Risk-based Screening Values ug/L[2]	Olin Lab MDL (µg/L)[1]	Olin Lab Reporting Limit (µg/L)[1]
Volatile Organic Compounds (VOCs)	various	8260B	524.2			1
Semivolatile Organic Compounds (SVOCs)	various	8270C	8270			5
N-Nitroso-dimethylamine	62-75-9	mod 521	1625	0.01	0.00045	0.002
Metals (Ca,Cr,Na)	various	6010B	200.8			400, 5, 400
Anions (NO3, NO2, SO4, CL)	various	300	353.2,300.0,4500			10-100
Ammonia	7664-41-7	Lachat (EPA 350.1)	4500			100
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mod 521	1625	0.0096	0.005	0.01
N-Nitroso-diphenylamine	86-30-6	8270C[3]	8270	14	0.385	5
Hydrazine	302-01-2	mod 8315 LC/MS/MS	ASTM D1385	0.02	0.05	0.2
Acetaldehyde	75-07-0	SW-846 Method 8315	8315	2.2	10	30 [5.]
Formaldehyde	50-00-0	SW-846 Method 8315	8315	730	5	30 [5.]
Butylbenzylphthalate	85-68-7	8270C[3]	8270	35	0.53	5
Di-n-octyl phthalate	117-84-0	8270C[3]	8270	180	0.224	5
Di-n-butyl phthalate	84-74-2	8270C[3]	8270	370	0.711	5
Phenol	108-95-2	8270C[3]	8270	1100	0.075	5
Diethyl phthalate	84-66-2	8270C[3]	8270	2900	0.386	5
Dimethyl phthalate	131-11-3	8270C[3]	8270	37000	0.37	5

Footnotes:
1. MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington, MA", MACTEC Engineering and Consulting. Final August
2. Additional analytes and risk based screening level identified by USEPA in file named "Olin Proposed Add'l Analytes(2) xls" attached to e-mail to Olin dated January 28, 2009
3. Compound included as one of the 73 analytes in the parameter list for SVOCs in EPA-NE QAPP Worksheet #9b-Methods 8270C (pages 6-10 through 6-13 of QAPP).
4. RL for Hydrazine is 0.2 µg/L, and 0.5 for MMH and UDMH
5. The RL for Acetaldehyde and Formaldehyde have been changed to 30 µg/L. This will include running a 30 µg/L standard during instrument initial calibration.
6. Includes residences at Map/Lot (M-/L-): M-14/L-2B, M-15/L-2C, M-2/L-7E, M-24/L-63, M-24/L64, M-24/L-66, M-24/L-72A, M-24/L-87A, and M-27/L-14C

Additional Notes:
TICs are reported for VOCs and SVOCs
Olin 8260B quantitation limit for VOCs is 1 µg/L for most compounds, but varies between analytes.
Olin 8260B quantitation limit for SVOCs is 5 µg/L for most compounds, but varies between analytes. Low PAH QLs (<1 µg/L)
The following three parameters will be measured in the field:
pH
Temeperature
Specific Conductance

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